OBRADOV, S.; REZAKOVIC, Dz.; CERIMOVIC, S.; TEFTEDARJA, M.

Acute leukoses at the Clinic of Internal Diseases in Sarajevo from 1949 to 1959. Bul sc Youg 7 no.1/2:8 F-Ap 162.

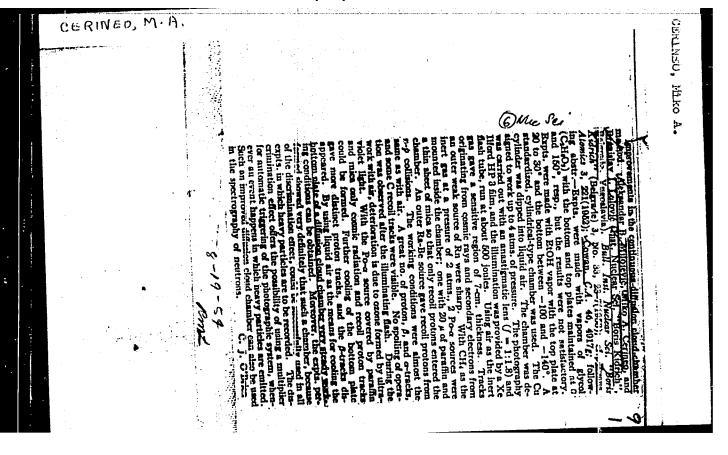
1. Medicinski fakultet, Sarajevo.

X

BELIC, I.; CERIN, B.

The occurrence of casticin in seeds of Vitex species. Vest Slov kem dr 9 no.1/2:33-34 Ja-Je '62.

l. Institut za kemijo, Medicinska fakulteta, Ljubljana, Yugoslavia.



Chemical Abst.

Chemical Abst.

Wol. 48 Mc. 3

Web. 10, 1954

Nuclear Phenomena

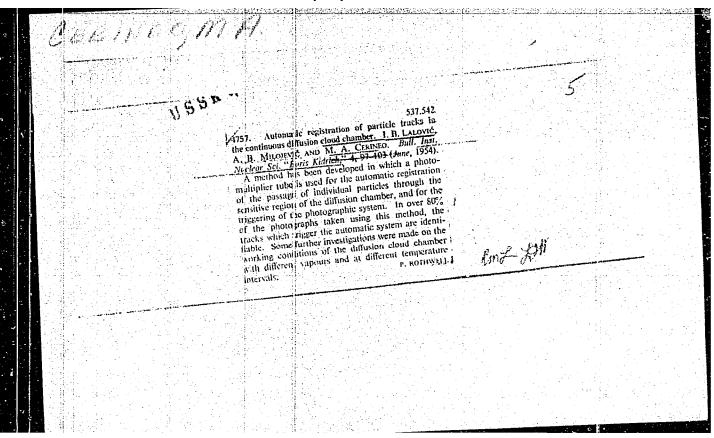
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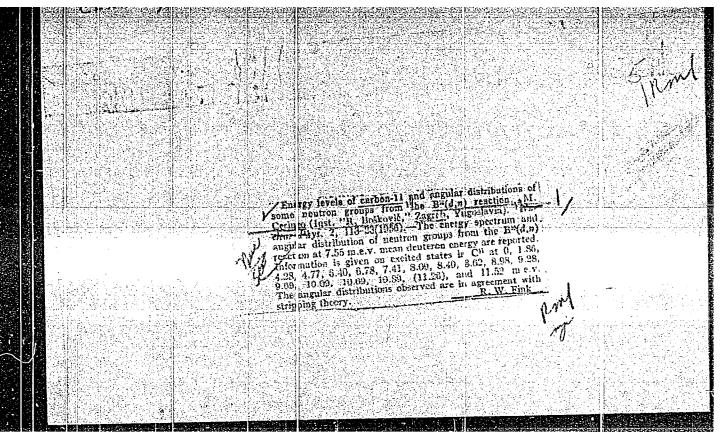
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Muclear Sci. Marich Technical Sci. Marich Techn





AJDACIC, Vladimir S.; CERINIO, Miho A.; DIMITRIJEVIC, Zivan Dj. [Dimitrijevic, Zivan D.]; MILOJEVIC, Aleksandar B.

Low pressure expansion cloud chamber. Bul Inst Nucl 10:33-42 Mr '60.

(EEAI 10:5)

1. Institute of Nuclear Sciences "Boris Kidrich" Laboratory of Physics.

(Cloud chamber)

: |

Angular distribution of protons from the C<sup>12</sup> (dp) C<sup>13</sup> reaction with deuteron energies of 5 to 13 Mev. Zhur. eksp. i teor. fiz. 39 no. 1:3-6 J1 '60. (MIRA 13:12)

1. Institut "Rudzher Boshkovich", Zagreb, Yugosloviya.
(Protons) (Carbon--Isotopes) (Nuclear reactions)

PAIC, V.; PAIC, M.; PRELEC, K.; CERINEO, M.; ILAKOVIC, K.; SLAUS, I.; TOMAS, P; VALKOVIC, V.; LJOLJE, K.; SIPS, V.

Review of peridoicals; physics. Bul sc Youg 9 no.4/5:126 Ag-0

1. Ruder Boskovic Institute, Zagreb.

Experiences from the introduction of the propane-heating and propane-cutting techniques in the "Motalna" Factory. Zavarivanje 3 no.4/5:84-91 Ey '60

1. "Motalna", Maribor (for Cerjak).
2. Clan Redekcionog kolegija, "Zavarivanje" (for Bralic).

OCEPEK, Drago, dr. inz., docent; CERK, Nevenka

Dressing of Fe-Ni ores from the Mokra Gora and Vardiste area. Rud met zbor no.1:35-39 '62.

1. Oddelek za montanistiko, Askerceva 20, Ljubljana.

CERKASIN, A.

CERYASIN, A. Classification of moravian rivers according to the variablity of the flow. p. 116.

Vol. 5, No. 4, Apr. 1955 VCDNI HCSPCDARSTVI TECHNOLOGY Praha, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 1, May 1956

CERKASIN, A.

Flood on the Zravka creek. p. 538.

VOMDÍ HOSPOKARSTVI. (Ministerstvo energetiky a nodního hospodarství a Vedecka technica spolecnost pro vodní hospodarství) Praha, Czedhoslovakia, No. 12, Dec. 1959.

Monthly List of East European Accession (EEAI), IC Vol. 9, no. 2, Feb. 1960

Uncl.

CZECHOSLOVAKIA

CERKASOV, J., FOUSTKA, M; Zoological Institute, Charles University (Zoologicky Ustav UK), Prague.

"Isolation of Mitochondria from Tissue Dried by Freeze Sublimation in Nonconductive Media."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 125

Abstract: The method suggested by the authors is based on a quick fixation of the tissue in liquid nitrogen at -200°C, sublimation drying at -60°, homogenization in a non-polar medium (mixture of clive oil, petrolether and freon 113) and separation of the homogenate by gradient centrifuging at -20°C in non-polar media. A fraction containing 90% mito-chondria can be obtained. No references. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65.

1/1

#### CZECHOSLOVAKIA

CERKASOVOVA, A; Parasitological Institute, Czehoslovak Academy of Sciences, Protozoological Department (Parasitologicky Ustav CSAV, Protozoologicke Odd.) Prague.

"On the Anergy Metabolism of Trichomonas Foetus."

Prague, Ceskoslovenska Fysiologie, Vol 15, No2, Feb 66, p 122

Abstract: Trichomonas Foetus is adapted to semianaerobic conditions; its breathing is stimulated by glucose, 2, 4-dinitrophenol and HCN. Under anaerobic conditions, it uses glycogen, and after anoxia it recovers oxygen. No references. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65

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Experiences with the comportation therapy after orthogonic managery in children. Acts whire opticpe trans. comb. If co.vi. 386-301 of 161.

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CERKES, L.; DOSKOCIL, J.; CERKESCVA, J.

Contribution to the method of color prints in biologically developed chromatograms.

P. 185, (Ceskeslovenska Mikrobiolegie) Vol.2, no.3, June 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EFAI) Vol. 6, No. 11 November 1957

PECAK, V.; CIZEK, S.; MUSIL, J.; CERKES, L.; HEROLD, M.; BELIK, E.; HOJFMAN, J.

Stimulation of chlortetracycline production by benzyl thicoyanate. J. Hyg. Epidem., Praha 2 no.1:111-115 1958.

1. Institute of Antibiotic Research, Roztoky, near Prague, Czechoslovakia. (THIOCYANATES, effects

benzyl thiocyanate stimulation of chlortetracycline prod. by Streptomyces strains)

(CHIORTETRACYCLINE, preparation of

prod. by Streptomyces strains, stimulation by benzyl thiocyanate admin.)

(STREPTOMYCES, metabolism

aureofaciens prod. of chlortetracycline, stimulation by benzyl thiocyanate admin.)

CZECHOSLOVAKIA/Human and Animal Morphology - Normal Patholigical. S Methods and Technique of Investigation.

Abs Jour : Ref Zhur Biol., No 23, 1958, 105871

Author : Cerkes, L., Doskocil, J., Cerkesowa, J.

Inst :

Title

: A Contribution to the Method of Coloured Prints in

Bioautography

Orig Pub : Folia biol. (Ceskosh,), 1958, 4, No 1, 61-62

Abstract : The method of colored prints in bicautography was used

on slides with gran-positive and gram-negative bacteria, and also with certain funci. To obtain the chromatogram the slides are covered with a solution of gentian-violet; after one-half to one minute the stain is removed and the slide is covered with Lucol's solution. Thereafter, the slide is treated for three minites with a solution of ethanol or acetone. The solution is removed, the slide is washed in water and a quantitative analysis of the

card 1/2

CZECHOSLOVAKIA/Human and Animal Morphology - Normal and Pathological. Methods and Technic of Investigation.

Abs Jour : Ref Zhur Piol., No 23, 1958, 105871

chroatogram is performed. Another method is possible: the slide is covered with a one percent aqueous solutions of malachite green; after its removal the slide is washed out in water and in a solution of alcohol, and then in acetone for three to five minutes. The obtained green print is suitable for quantitative analysis. -- N.A. Podkaminskiy

Card 2/2

-1-

CHECUCSHOV. KIA/Hausen and Andreal Physiology. Metabolism.

 $\mathbf{T}$ 

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92998.

Author : Cerkes, L.A.

Inst

Title : Experimental Deficiency of Choline. Its Clinical

Meaning.

Orag Pub: Coskosl. gastroenterol. a vyziva, 1958, 12, No 1,

18-21.

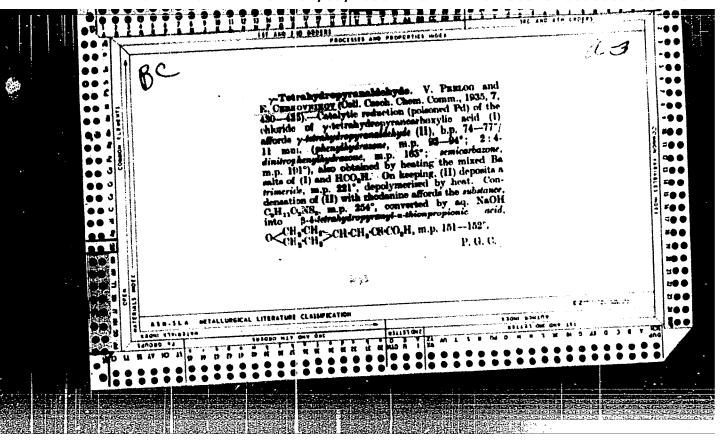
Abstract: No abstract.

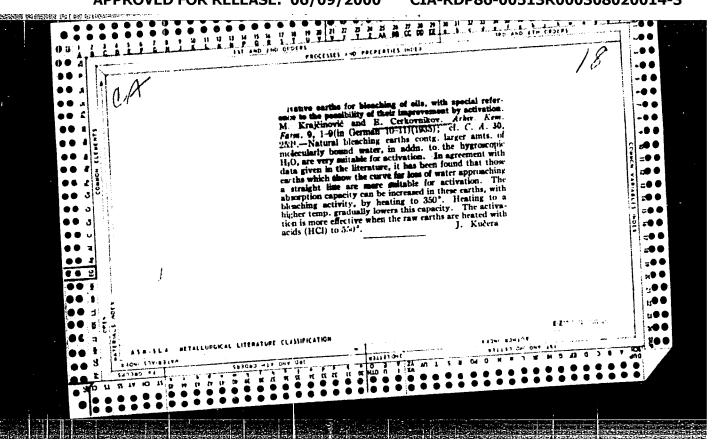
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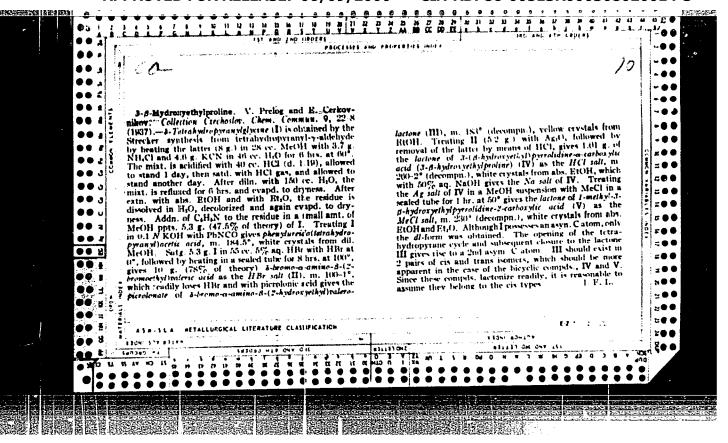
IJP(c) WW/RM L 40816-66 EWP(j)/T SOURCE CODE: CZ/0078/66/000/004/0012/0012 ACC NR: AP6013156 INVENTOR: Cerk, Jan (Trebec); Ossendorf, Miroslav (Ceske Budejovice); Tesar, Autonin (Vcelna u Ceskych Budejovic) ORG: None TITLE: [A method for producing a choke coil] CZ Pat. No. PV 5905-61, Class 21d SOURCE: Vynalezy, no. 4, 1966, 12 TOPIC TAGS: electric filter, glass fabric, epoxy plastic, electric inductance, self induction, OLTRASONIC FREQUENCY ABSTRACT: This patent introduces a method for making a choke to supress transmission of supersonic frequencies in the 10-500 kc range on outside installations and hightension cables. The choke is made by weaving conductive tape into a hollow disc-shaped coil. The best type of conductive tape is made from aluminum with an interlayer of antificial insulation. The conductive tape should be at least 30 times as long as it is vide. A tape woven from fiberglass at least 10 mm wider than the conductive tape is presaturated with epoxy resin of This glass tape is placed over the conductive tape in such a way that it extends beyond the edges on both sides. The double tape is then wound into the appropriate disc-shaped coil with alternating layers of conductive tape and glass fabric. The outside diameter of the coil is 2 or 3 times its inside Card 1/2

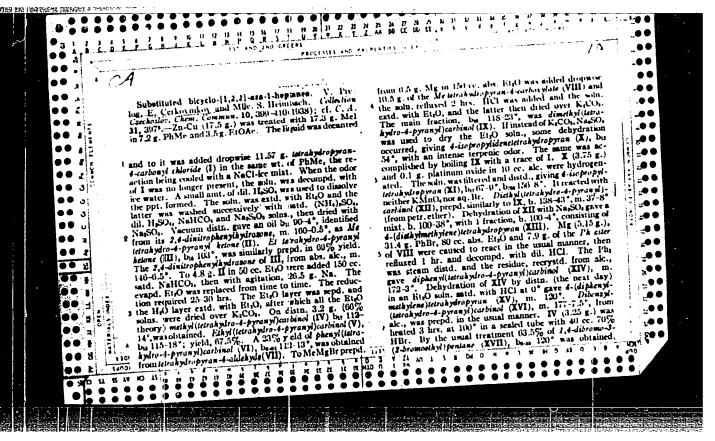
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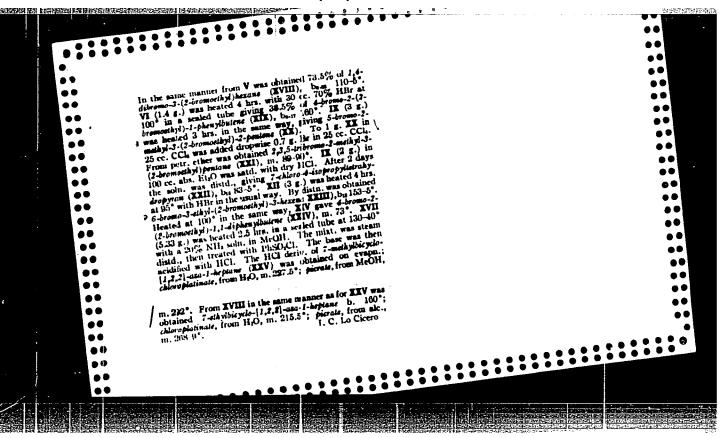
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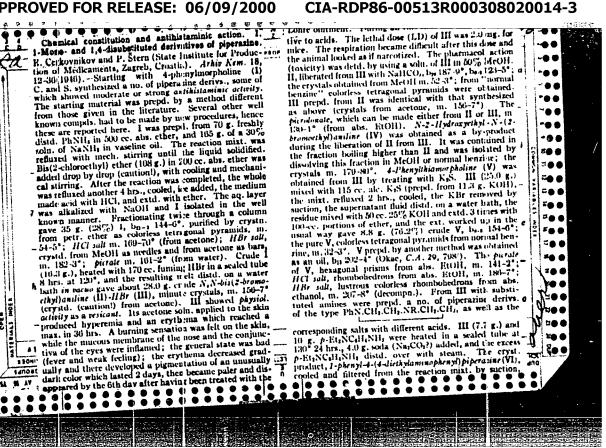


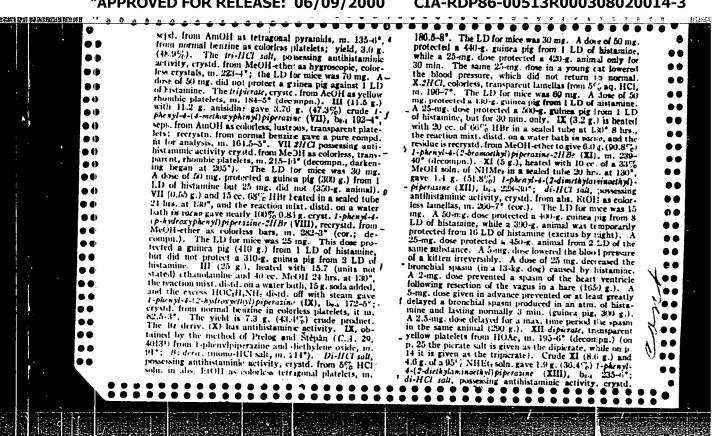


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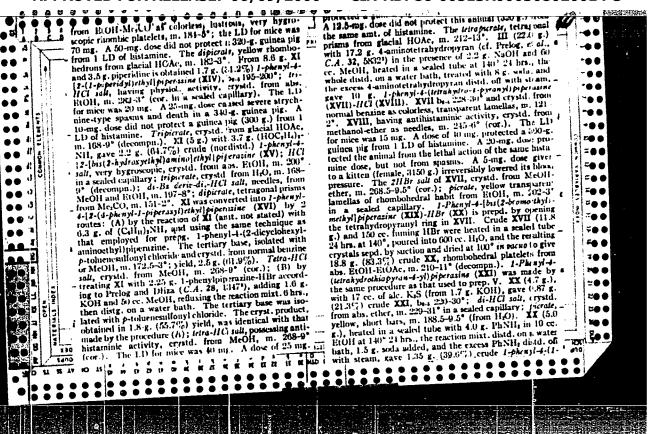
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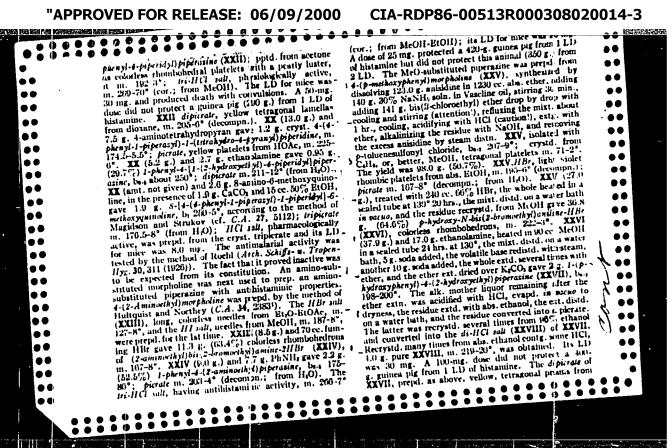
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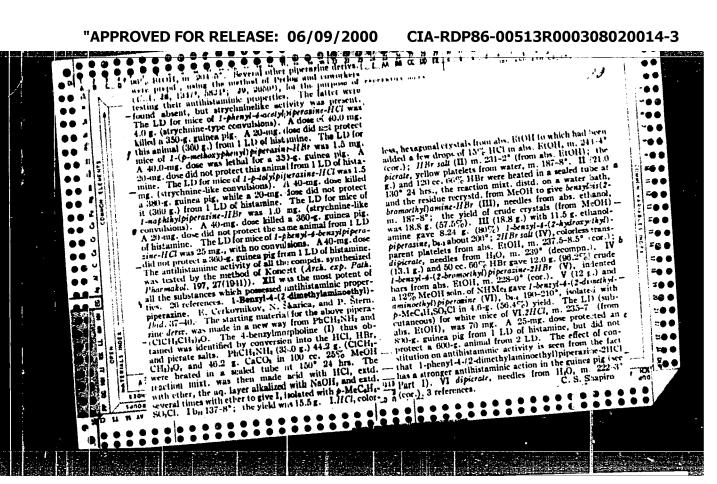
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#### CIA-RDP86-00513R000308020014-3





CERKOVNIKOV, E.

Yugoslavia (430)

Technology

Chamical composition and antihistaminic action; 3d report. Some heterocyclic derivatives of N (-dimethylaminoalkyls). p. 87, Arhiv Za Kemiju, Vol. 18, nos. 1-4, 1946.

East European Accessions List. Library of Congress, Vol. 1, no. 14, Dec. 1952, UNCLASSIFIED. Vol. 1, no. 14, Dec. 1952,

CERKOVNIKOV, E.

Yugoslavia (430)

Technology

The N-substituted derivatives of p-toluene-sulfonamide, p. 38, Arhiv Za Kemiju, Vol. 19, no. 1-4, 1947.

<u>East European Accessions List</u>, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED

CERKOVNIKOV, E.

Yugoslavia (430)

Technology

Chemical constitution and chemotherapeutic action. lst. report. The bacteriostatic activity of some sulfonamide preparations of bacillus dysenteriae. p. 42, Arhiv Za Kemiju, Vol. 19, no. 1-4, 1947.

East Eurpoean Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952.

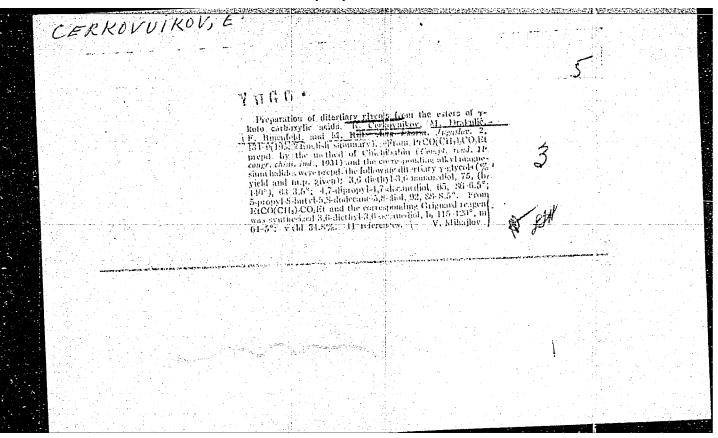
CERKOVNIKOV, E.

Yugoslavia (430)

Technology

The denotation and numeration of organic compounds after Dyson. p. 154, ARHIV ZA KEMIJU, Vol. 20, no. 1-4, 1948.

East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.



T-5

CERKOVNIKON E.

YUGOSLAVIA/General Problems of Pathology - Tumors.

: Ref Zhur - Biol., No 3, 1958, 12717 Abs Jour

: Cerkovnikov, E., Misirlije, A., Muacevic, G., Stern, P.

Fac. med, Sarajevo Yugoslavia Author Not given. Inst

: Chemical Structure and Antileukemic Activity. IV. Title

N-phenylurethans of Certain Aminoalcohols.

: Acta pharmac. jugoslav., 1955, 5, No 1, 43-50 Orig Pub

: A study was made of ability to cause leukopenia, toxicity, allergic reactions and to influence the blood pressure of Abstract

the N-phenylurethanhydrochlorides of the following amino-

alcohols:

(I) dimethylaminoethanol;

(II) dimethylaminopropanol;

(III) diethylaminopropanol; (IV) diethylaminoethanol;

card 1/3

YUGOSLAVIA/General Problems of Pathology - Tumors.

T-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12717

(V) diethylaminopropanol. The ability to cause leukopenia was studied on roosters that were twice given I.M. 0.5 ml. of a 0.25% solution of maretin (1-m-tolylsemicarbazide), a substance causing leucocytosis, with a 7-day interval between injections. Later, 0.1 ml. of a 0.25% aqueous solution of the experimental compounds was injected I.M. for 14 days. White counts were done before the experiment, after the injection of meritin, on the 8th and 14th days of treatment and after 11-12 and 25-30 days following the termination of therapy. The toxicity of the substances was determined with mice. Effects on blood pressure were studied on cats under chlorolose narcosis, and the antiallergic action was studied on guinea pigs sensitized with egg albumin. All compounds studied caused levkopenia. N-phenylurethans of the alcohols with the diethylamine radical were more efficacious than the corresponding urethans of the alcohols containing

Card 2/3

YUGOSLAVIA/General Problems of Pathology - Tumors.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12717

a diethylamine radical. N-phenylurethans of the primary aminoalcohols were more active than corresponding N-phenylurethans of the secondary alcohols. Under the influence of (I) and (II) leukocyte counts returned to normal; thus, these substances had an effect similar to urethan. All experimental substances were more toxic than urethan (mouse ID for urethan is 15-20 mg./20 g. of body weight, whereas tje ID for N-phenylurethans is 3-10 mg./20 g.). Ten milligrams of any of these substances briefly depressed the blood pressure by 20-30 mm. Hg. (I), (II), (IV) and (V) prevented asthmatic episodes in guinea pigs sensitized with egg albumin and inhaling a homogogous antigen. A glossary of 10 terms follows.

T-5

Card 3/3

CERKOVNIKOV, E.

Aleksel Evegen'evich Chichibabin, 1871-1945; on the tenth anniversary of his death. (Supplement) P. A33, Vol 27, no. 2, 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

## CIA-RDP86-00513R000308020014-3 "APPROVED FOR RELEASE: 06/09/2000

CERKOVNIKOV, E.

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khim , No 13, 1958, 43348.

Author : Kolbah Dragutin, Rill Margita, Cerkovnikov Eugen.

: 4-(Beta-Dimethylamino-Ethyl)-Tetrahydropyran. Inst Title

Orig Pub: Acta pharmac. jugosl., 1956, 6, No 2, 65-67.

Abstract: By the action of PBr3 on 4-(beta-hydroxy-ethyl)tetrahydropyran in the presence of C,H,N (48 hours, about 20) was obtained 4-(beta-bromethyl)tetrahydropyran, yield 77%, BP 102°/13 mm, by the heating of which (16 hours, 130) with NH (CH;); in absolute alcohol was synthesized 4-(beta-dimethylamino-ethyl)-tetrahydropyran, yield 77%, BP 80-82°/12 mm, which on boiling with a

: 1/2 Card

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

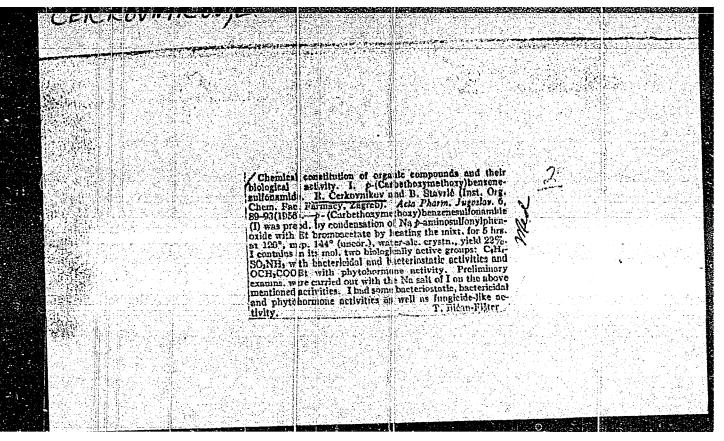
G-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43348.

solution of HBr in CH:COOH is converted to the hydrobromide of 3-(beta-dimethylamino-ethyl)-1,5-dibromopetane, yield 90.6%, MP 104-105° (from absolute alcohol).

Card : 2/2

11



STAVRIC. B.; CRRKOVNIKOV, B.

Preparation of some derivatives of p-hydroxybenzenesulfonamides. I. Some N-alkyl derivatives of p-(carvoxymethoxy) benzenesulfonamides. In English. Groat.chem.acta 31 no.3:107-114 59. (KE:I 9:4)

1. Institute of Organic Chemistry, Faculty of Pharmacy, University of Zagreb, Zagreb, Croatia, Yugoslavia. 2. Present adress: Institute of Chemistry and Biochemistry, Faculty of Medicine, University of Zagreb, Rijeka, Groatia, Yugoslavia (for Cerkovnikov).

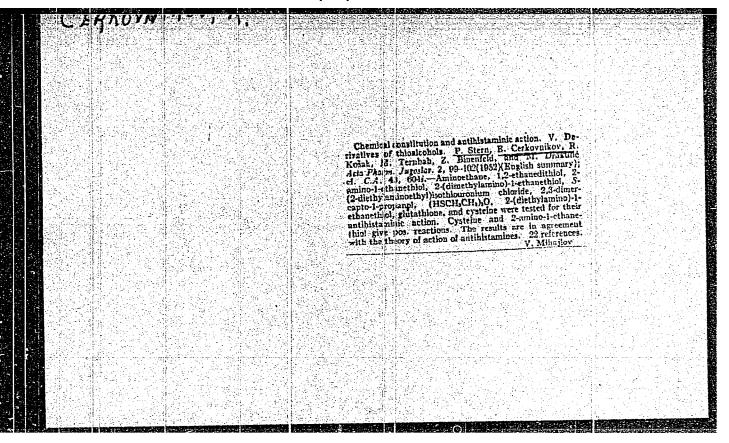
(Carboxyl group) (Methoxybenzenesulfonamide) (Phepolsulfonamide) (Alkyl groups)

STAVRIC, B.; CERKOVNIKOV, E.

Preparation of some derivatives of p-hydroxybenzene sulphonanides. II. Some N-heterocyclic and other derivatives of p-carboxymethoxybenzene sulphonamides. Croat chem acta 32 no.4:203-207 160. (EEAI 10:9)

1. Institute of Organic Chemistry, Faculty of Pharmacy, University of Zabreb, Croatia, Yugoslavia.

(Acetic acid) (Benzenosulfonamides)
(Diazotization)



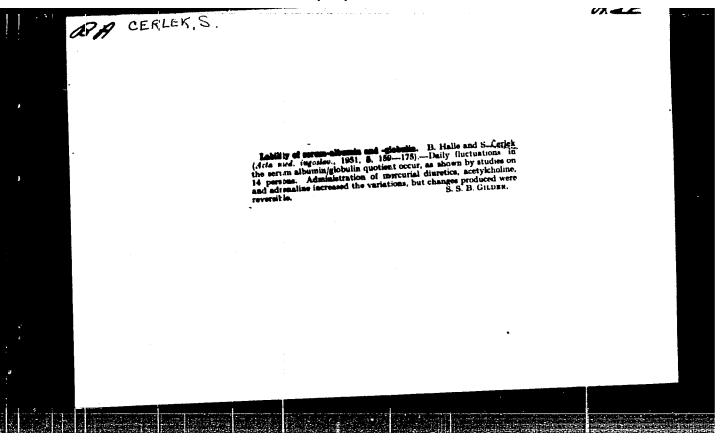
LUKETIC, Gorazd, dr.; CERLEE, Nenad, dr.; KULCAR, Zivko, dr.

Blood groups and gastrointestinal diseases. Lijec. vjes. 81 no.11:827-830 '59.

1. Iz Internog i Kirurskog odjela Opce bolnice \*Dra. M. Stojanovica\*
i iz Centralnog Higijenskog savoda u Zagrebu.

(GASTROINTESTINAL DISPASES blood)

(BLOOD GROUPS)



CERLER, S.

HAHN, A., dr.; IAINOVIC, C., dr.; CERLER, S., dr.

Atypical pictures of amebiasis. Lijec. vjes. 76 no.3-4:128-137

Mar-Apr 54.

1. Iz Interne klinike Medicinskog fakulteta Sveucilista u Zagrebu.

(AMEBIASIS, pathol.)

CERLEK, S.

KALLAI, L., dr.; CHRIEK, S., dr.; BARTOLOVIC, D., dr.

Clinical aspects of peripapillary carcinoma of duodenum. Lijec. vjes. 76 no.7-8:289-297 July-Aug 54.

1. Iz interne klinike Medizinskog fakulteta Sveucilista, Zagreb. (DUCOMNUM, neoplasms peripapillary carcinoma)

CERLEK, S., Dr.; KALLAI, L. Dr

Anicteric forms in hepatitis epidemics. Lijec.vjes. 77 no.3-4:161-167 Mar-Apr '55.

1. Iz Interne klinike Medicineskog fakulteta u Zagrebu. (HEPATITIS, epidemiol. anicteric hepatitis, incidence & diag.(Ser))

PERSIC, N.; KALLAI, L.; CERLEK, S.

Histological changes in liver in schizophrenia. Acta med. iugosl. 10 no.3:387-398 1956.

1. Neurolosko-psihijatrijska klinika i Interna klinika
Medicinskog fakulteta u Zagrebu.

(SCHIZOPHRENIA, pathol.

liver (Ser))

(LIVER, pathol.

in schizophrenia (Ser))

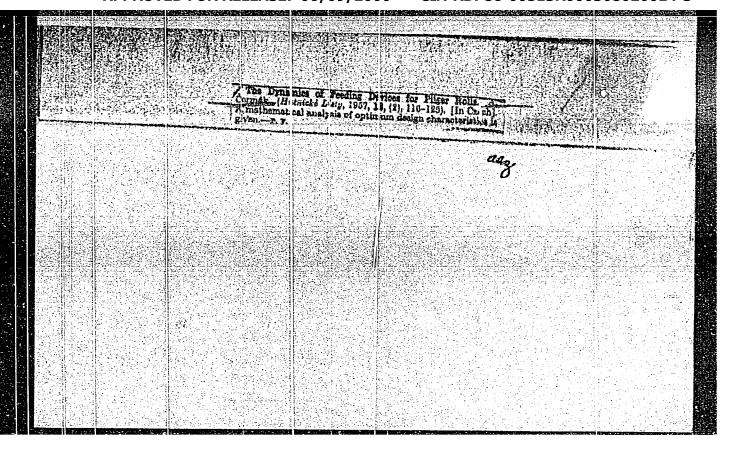
FORENBACHER, S.; CERLEK, S.; MARZAN, B.

The effect of protracted application of alcohol upon the liver of horses. Acta med. iugoslavl. 15 no.1:80-94 '61.

1. Department of Medicine, Medical Faculty, and Institute for Pathology and Therapy, Faculty of Veterinary Medicine, University of Zagreb.

(ALCOHOLISM exper) (LIVER pathol)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000308020014-3



L 34230-66

ACC NR. AP6026074

SOURCE CODE: CZ/0034/65/000/012/0906/0906

INVENTOR: Smitny, Z. (Doctor; Engineer); Staron, J. (Engineer); Cormak, A. (Engineer)

ORG: none

TITLE: Basic refractory bricks. Class 18b, No PV 7005-64

SOURCE: Hutnicke listy, no. 12, 1965, 906

TOPIC TAGS: refractory product, metal coating

ABSTRACT: The article is an abstract of Authors' Patent Application No Class 18b, 5/10, PV 7005-64, dated 12 Dec 64. The invention describes shapes formed from a refractory material covered ABSTRACT: by metal that is oxidizable, and is in contact with all surfaces of the material which it is protecting. The metal is in two sections and designed so that two parts of it always overlap giving a double metal layer on a brick surface. The metal covers are connected by parts that are folded over each other and located as a diagonal line across one side of the brick. [JFRS: 34,272]

SUB CODE: 11, 13 / SUBM DATE: none

HORA, Oldrich, inz.; ZAK, Knrel, inz.; CERMAK, Alexander, inz.

Research on grain separators. Zemedel tech 9 no. 4:317-334
Ag '63.

1. Vyzkumny ustav zemedelskych stroju, Chodov u Prahy.

HORA, Oldrich, inz.; CERMAK, Alexandr, inz.; GREGOR, Miroslav

Raising the effectiveness of harvester-threshers. Zemedel tech 10 no. 3:151-164 Mr '64.

1. Research Institute of Agricultural Machinery, Chodov near Prague. Director of the Institute: inv. Jaroslav Homolka.

L 62760-65 CZ/0034/64/000/011/0833/0833 ACCESSION NR: AP5021463 AUTHOR: Cermak, A. (Engineer) TITLE: Production of electrically melted magnesite SOURCE: Hutnicke listy, no. 11, 1964, 833 TOPIC TAGS: arc furnace, metal multing, magnesite, magnetic separation Abstract: Melting in an electric arc furnace yields a bloc containing the recrystallized product coated with an agglo-merated layer of the original charge. The invention covers the separation of the product from the outer layer. The magnesite charge contains a min. of 5% of Fe<sub>2</sub>O<sub>3</sub> and 2.5 to 6% of GrO and SiO<sub>2</sub> A magnetic separation of the product is then possible. The article describes Czechoslovak Patent Application Class 18b, 5/10, PV 1814-63, dated 1st. ASSOCIATION: none SUB CODE: ME ENCL: 00 SUBMITTED: 01Apr64 NO REF SOV: 000 Card 1/1 JPRS OTHER: OCO

·	L 43616-66 EWP(k)/EWP(h)/EWP(v)/EWP(1) BC C7/0078/65/000/012/0025/0026
	ACC NR. AP6017909  (A)  SOURCE CODE: CZ/0078/65/000/012/0025/0026  INVENTOR: Znamek, Miroslav (engineer); Michalik, Slavomir (engineer); Cermak,
	Antonin lengineer, Candidate of Sciences/Contraction
	ORG: none
	TITLE: (Transducer for the long-range measurement of position) CZ Pat. No. PV 3481-65, Class 746-
	SOURCE: Vynalezy, no. 12, 1965, 26
	TOPIC TAGS: measuring instrument, remote control, detection system
	ABSTRACT: A transducer for the long-range measurement of position, in particular of liquid level, is described which has the distinguishing feature that it consists of at least one coil wound so that winding lengths are in ascending order, and of an axially movable member positioned freely inside the coil and controlled by coil inductance.
	SUB CODE: 09,14/ 28May65
	Card 1/1 fgm

CERMAK, B.

"Froblems of the impregnation of tar cardboard."

PAPIR A CECULOSA. Fraha, Czechoslovakia. Vol. 10, no. d, Aug. 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 9, No. 6, Jun 50, Unclas

BLECHTA, V.; LAVICKA, M.; CERMAK, B.

Jaboratory furnace for following the kinetics of calcination processes. Shem prum 14 no.5:263-265 My '64.

1. Research Institute of Inorganic Chemistry, Usti nad Labem.

CERMAK, E.

"Speeding up the construction of water-power works by a correct selection of the sequence of processes for assembling steel structures and machines." p. 132.

STAVBA. (Poverenictvo stavebnictva). Bratislava, Czechoslovakia, Vol. 6, No. 5, May 1959.

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CERMAK, Fedor, inz.

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Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 119

Abstract: When the work being performed does not exceed the physical constitution of the person, the work is being done in a true equilibrium state. There is only a very small oxygen deficiency which does not increase during continuing work. Up to a definite intensity of work, lung ventilation increases practically linearly with oxygen usage. Experiments on 81 sportsmen indicated that adult men reached the equilibrium state more easily than do adolescents. No references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

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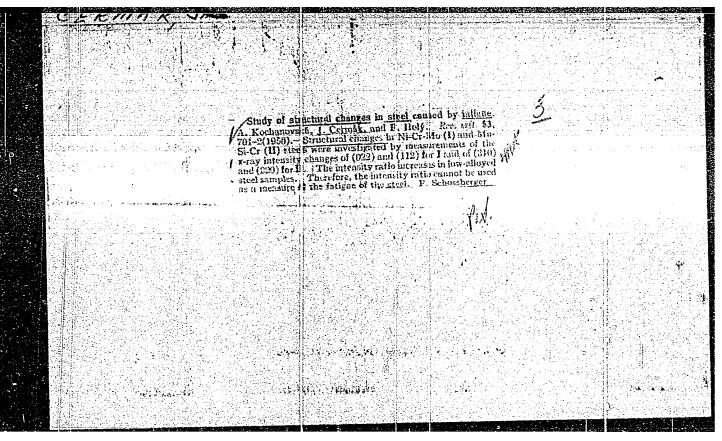
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AUTHORS:

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Čermák, Jiří, and Roček, Jindřich

TITLE:

Activities of the Theoretical Physics Department of the Nuclear Research Institute during 1954 - 1961

PERIODICAL: Jaderná energie, no. 10, 1961, 326-329

TEXT: The article briefly reviews the 1954-61 activities of the Theoretical Physics Department of the Nuclear Research Institute and lists research conducted in the field of reactor physics, to solve problems arising from the project of the first Czechoslovak nuclear research reactor. A list of publications, cited in this article, is given at the end. One of the major research items was neutron diffusion in the heterogeneous medium (Ref. 2: L. Trlifaj: Homogenizace heterogenniho prostředí, Čs. čas. Fys. 6 (1956), p. 509); (Ref. 4: L. Trlifaj: On the anisotropy of a heterogeneous medium with respect to the diffusion of neutrons I, II, Czechosl. Journ. Phys. 7 (1957), pp. 397 and 593). An example is mentioned where the lattice of a heterogeneous reactor is

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homogenized by replacing the fuel rods and the moderator by an effective homogeneous medium. Neutron diffusion was studied in an infinite flat lattice with the aid of the kinetic theory of diffusion and compared with results achieved by the phenomenologic and other methods. The method of spherical harmonics was applied to solve concrete physical problems, e.g. calculation of the thermal neutron flux in the fuel element, and of the thermal utilization factor, etc. (Ref. 10: L. Trlifaj: Some aspects of the spherical harmonics method for neutron-transport problems in cylindrical geometry. Czechosl. Journ. Phys. 8 (1958), p. 390). Corrections of some erroneous assumptions, published in foreign papers on the equivalence method of spherical harmonics and the Wick-Chandrasekhar method of discrete coordinates, are made by L. Trlifaj (Ref. 11: 0 vztahu mezi sférických harmonických a metodu diskretnich souradnic. Czech. Journ. Phys. 9 (1959), p. 535). Irregularities in the heterogeneous lattice were another research subject and studies concentrated on boundary problems, i.e. determination of conditions on the boundary between the

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scattering medium and the vacuum (Milne's problem) or on the boundary of an infinitely large cylindrical black rod situated in an infinite medium, and the coherent determination of the extrapolated length or effective radius of the rod. The problem of the exchange of one block in a two-dimensional square lattice by another block with different physical properties was successfully solved by L. Trlifaj and J. Roček (Ref. 12: Zamena bloka v dvumernoy kvadratnoy reshotke. Atomnaya energiya 9 (1960), p.366). A formula was derived for the effective radius of a black rod and it was found that, at greater distances from the exchanged block, formulas for the deformation of the neutron density take on the same form as those for a homogeneous medium. Other studies dealt with the influence of regulation rods in a homogeneous reactor. Methods were investigated which not only allow determination of the efficiency of a regulation rod depending on the depth of insertion, but also the deformation of the neutron density in the vicinity of the rod. The multigroup theory was used for calculating reator parameters; however, simple criteria were sought to replace the physically improper sets of constants. These cri-Card 3/5

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teria were found in the form of estimations of certain determinants compiled from the constants. The correctness of the convergence of the so-called "method of iteration of sources", not yet fully confirmed, could be verified. The homogeneous reactor calculations were made for light or heavy-water moderation with the fuel (U-235 or Pu-238) suspended in form of the oxide. Tables were established, containing the results of critical-parameter calculations. The uranium-plutonium cycle was calculated and the changes in the isotopic composition of the fuel during reactor operation, and the influence of these changes on the reactivity of the system were stated. It was found that Pu-239, produced in the reactor from slightly enriched uranium, could be used to enrich the natural uranium for the next reactor run. The burn-up of a reactor could thus be reduced from 10,000 to 2,000 Mwd/t. Finally, the Nuclear Research Institute also engaged in studies of theoretical nuclear physics, especially the theory of elementary particles, nuclear models, beta-decay, etc. (Ref. 26: I. Ulehla: Meson scattering on nucleons. Czech. Journ. Phys, 10 (1960), p. 701; L. Gomolčák, Z. Pluhař, I. Ölehla: Optický model

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ASSOCIATION: Ústav jáderného výzumu ČSAV (Nuclear Research Institute, Czechoslovak AS)

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CERMAK, Josef

Spalovaci zarizeni a kotle. Vypucty. (Combistion Installations and Boilers; Calculations; a university textbook. 1st ed. illus., bibl., tables) For the students of the Faculty of Mechanical Engineering. Frague, SNTL, 1957. 356 p.

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